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ABSTRACT OF THE DISCLOSURE

An arrangement is provided for using a stack trace cache when performing root set enumeration in a stack of a thread during garbage collection. During the first root set enumeration in the stack, full stack unwinding may be performed and a stack trace cache may be created to cache stack trace information relating to stack frames. Subsequent sessions of root set enumeration in the stack may access and copy parts or the entire cached stack trace information instead of performing full stack unwinding.